Appl. No. 10/007,270 Amdt. dated September 8, 2004 Reply to Office Action of March 8, 2004

## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

## **Listing of Claims:**

- 1. (currently amended) An isolated or recombinant polynucleotide comprising a nucleotide sequence nucleic acid segment or its complement, wherein said nucleotide sequence nucleic acid segment hybridizes to at least 750 contiguous nucleotides of SEQ ID NO:1 at 5 °C to 25 °C below Tm in aqueous solution at 1 M NaCl under stringent conditions to at least 540 contiguous nucleotide residues of SEQ ID NO: 1, 3, 5, or 27.
- 2. (currently amended) An isolated or recombinant polynucleotide comprising a nucleotide sequence or its complement, wherein said nucleotide sequence comprises at least 540 750 contiguous nucleotide residues of SEQ ID NO: 1, 3, 5, or 27.
- 3. (currently amended) The isolated or recombinant polynucleotide of claim 2 comprising the sequence set forth in any one of SEQ ID NO:1 or its complement NOs: 1, 3, and 27.
- 4. (currently amended) An isolated or recombinant polynucleotide comprising a nucleotide sequence or its complement, wherein said nucleotide sequence encodes a polypeptide comprising at least 180 190 contiguous amino acid residues of SEQ ID NO: 2, 4, 6, or 28.
- 5. (currently amended) The isolated or recombinant polynucleotide of claim 4, comprising a nucleotide sequence encoding the amino acid sequence of SEQ ID NO: 2, 4, 6 or 28.
  - 6-9. (canceled)
  - 10. (previously presented) A vector comprising a polynucleotide of claim 1.

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11. (previously presented) The vector of claim 10, further comprising a promoter that is operably linked to the polynucleotide.

12-20. (canceled)

- 21. (new) A vector comprising a polynucleotide of claim 4.
- 22. (new) The vector of claim 21, further comprising a promoter that is operably linked to the polynucleotide.